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Production of 1-butene

Abstract

- Process for producing a 1-butene-containing C4-hydrocarbon stream (1-C₄⁼ stream) from a 1-butene- and 2-butene-containing C4-hydrocarbon stream (1- and 2-C₄⁼ feed stream) whose 1-butene content is lower than that of the 1-C₄⁼ stream, by
- a) feeding the 1- and 2-C₄⁼ feed stream and a 1-butene- and 2-butene-containing

 C4-hydrocarbon stream (1- and 2-C₄⁼ recycle stream) whose 1-butene content is lower than that of the 1-C₄⁼ stream and which has been produced by means of step (b) below into a distillation column and taking off the 1-C₄⁼ stream and a 2-butene-containing C4-hydrocarbon stream (2-C₄⁼ stream) whose 1-butene content is lower than that of the 1- and 2-C₄⁼ feed stream and of the 1- and 2-C₄⁼ recycle stream from the distillation column (step a) and
 - b) producing the 1- and 2-C₄⁼ recycle stream from the 2-C₄⁼ stream by bringing the 2-C₄⁼ stream into contact with an isomerization catalyst which catalyzes the conversion of 2-butenes into 1-butene in a reaction zone (step b).